READ AND FOLLOW ALL SAFETY INSTRUCTIONS!
SAVE THESE INSTRUCTIONS AND DELIVER TO OWNER AFTER INSTALLATION

IMPORTANT SAFEGUARDS

When using electrical equipment, basic safety precautions should always be followed including the following:

READ AND FOLLOW ALL SAFETY INSTRUCTIONS.

- **Do not use outdoors.**
- **Use only indoors in dry, relatively clean, non-condensing humidity environments.**
- **Do not mount near gas or electric heaters.**
- **Equipment should be mounted in locations and at heights where it will not be subjected to tampering by unauthorized personnel.**
- **The use of accessory equipment not recommended by the manufacturer may cause an unsafe condition.**
- **Do not use this equipment for other than its intended use.**

SAVE THESE INSTRUCTIONS

To reduce the risk of death, injury or property damage from fire, electric shock, cuts, abrasions, falling parts, and other hazards:

- Service of the equipment must be performed by qualified service personnel.
- Installation and maintenance must be performed by a person familiar with the construction and operation of this product and any hazards involved. All applicable codes and ordinances must be followed.
- Read this document before installing, servicing, or maintaining this equipment. These instructions do not cover all installation, service, and maintenance situations. If your situation is not covered, or if you do not understand these instructions or additional information is required, contact Acuity Controls.

WARNING

Before installing, servicing, or maintaining this equipment, follow these general precautions.

To reduce the risk of electrocution:

- Make sure the equipment is properly grounded.
- Always de-energize any equipment before connecting to, disconnecting from, or servicing the equipment.

To reduce the risk of fire:

- Use supply conductors with a minimum installation temperature rating as specified.

To reduce the risk of personal injury from cuts, abrasions:

- Wear gloves to prevent cuts or abrasions from sharp edges when removing from carton, handling and maintaining this equipment.
- Do not install damaged equipment.

Acuity Controls, a division of Acuity Brands Inc., assumes no responsibility for claims arising out of improper or careless installation or handling of this product.

SAVE THESE INSTRUCTIONS

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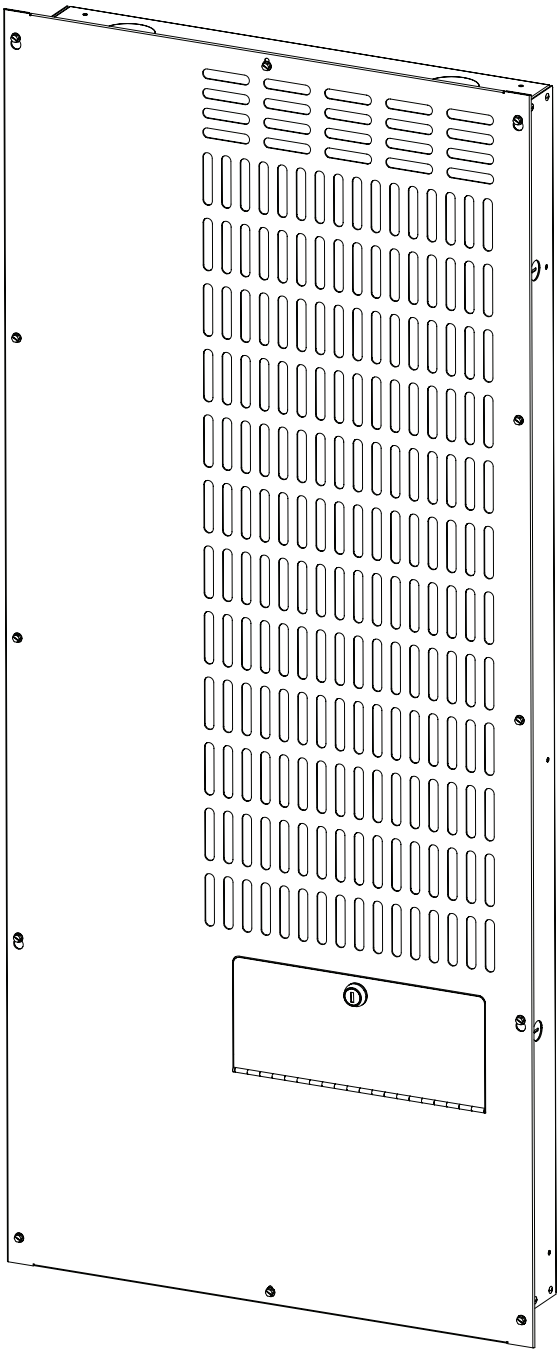
Overview

The LMP and LMPE are lighting management cabinets that allow control of dimmed, switched and digital luminaires and consist of three main elements.

1. **Enclosures:**
   LMP panels are NEMA Type 1 (indoor) certified. They are available in three sizes:
   Small - (1 to 3 modules)
   Medium - (1 to 6 modules)
   Large - (1 to 9 modules)
   The enclosure can be either surface or recessed mounted.
2. **Lighting Management Modules:**
   Lighting Management (LM) modules control the lighting loads. LM modules are available in several output types and support switching and dimming control of traditional sources (fluorescent and incandescent), plus 0-10V, LED, and DALI loads.

   LM4A - (4) Line voltage dimming and switching outputs.
   LM4D - (4) Line voltage dimming outputs.
   LM4L - (4) 0-10V dimming outputs and (4) line voltage switching relays.
   LM4R - (4) Line voltage switching relays.
   LM2B -(2) DALI dimming outputs.

   Different types of modules can be installed in the same LMP panel. Input and output wiring requirements depend on the particular LM module supplied. Refer to each individual LM module's installation instructions for wiring and installation details.
3. **Controller:**
   The LMP panel controller allows the LM modules to be configured. A Fresco Touchscreen station can also be used for panel configuration. There is also a Test/Override button on the controller to allow for manual override of loads.



LMP Panel

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LMP Panel Configuration

LMP panels are available either factory assembled or field assembled. These instructions are intended for factory configured assemblies. Refer to each LM module's installation instructions when field assembling an LMP "X" rough in enclosure and LM modules.

Important Cabinet Wiring and Location Notes

1. Ambient Conditions:
   Maximum Ambient Temperature: 104°F/40° C
   Minimum Ambient Temperature: 32°F/0°C
   Relative Humidity: 10-90% Non condensing
   Indoor installation only
2. LMP panels are intended for 120/208, 277/480 and 120/240 Vac, 60 hz installations only.
3. Each LMP module is fed by a single phase only. 120 or 277Vac, 60hz.
4. Cabinet will make noise during normal operation. Mount in an area where noise will not be objectionable.
5. Dimmer cabinet produces heat while operating equivalent to 1% of connected dimmer load at 120V or 277V.
6. Cabinet Physical Specifications – See Figure 2.
7. Can be surface or recessed mounted.
8. Allow 24" (610mm) of free space in front of cabinet for adequate ventilation.
9. Do not block air intake and exhaust or cabinet overheating will occur.

Important Wiring Notes

1. Use only copper conductors with 90°C insulation rating or higher.
2. Output terminals max torque rating: 8.9 inch-lbs

Before You Start

1. Disconnect all power prior to installation or servicing.
2. Install in accordance with the National Electrical Code and any other codes which may apply.
3. Do not install conduit where "No Conduit Entry" is noted in figure 3.
4. Use only as intended.
5. Use only accessories recommended by Acuity Controls.
6. Use only at voltage listed on product and component labels.
7. Refer to Main Feed Application information sheet for main feed guidelines.

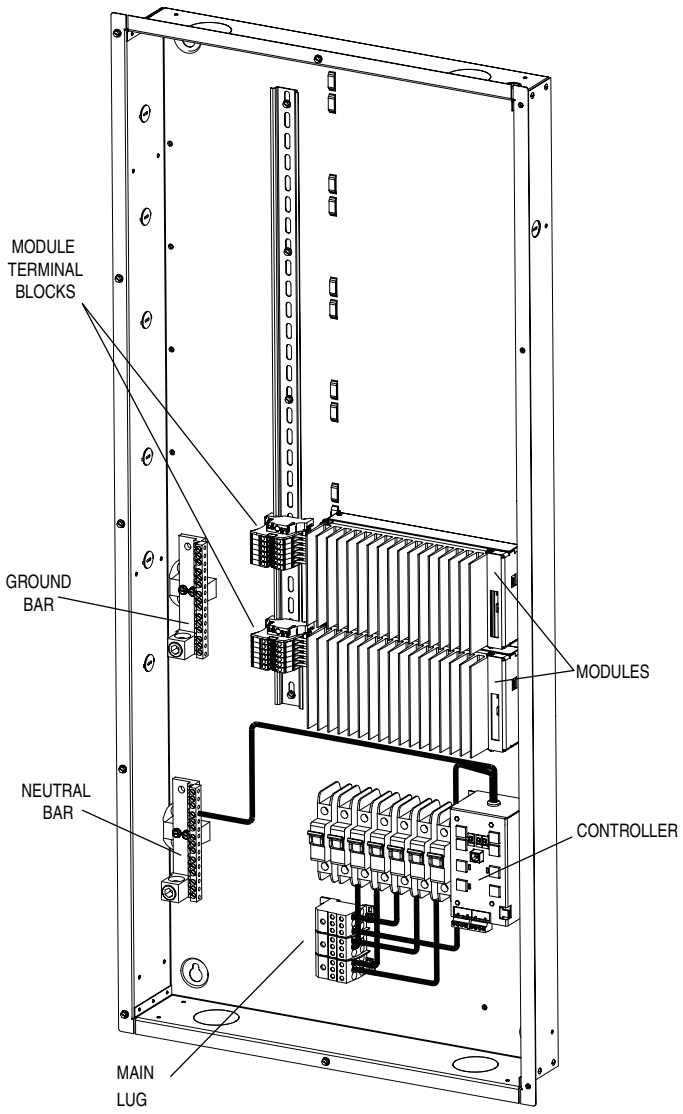

Figure 1 - LMP Panel Details

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Rough In Instructions

1. **Remove Cover** – Remove screws located on the edge of the front panel. Remove cover and set aside.
2. **Mount Cabinet** – Mount the cabinet to structural members as required using the four holes provided in the back of the cabinet. 5/16" diameter fasteners should be used, keyed mounting holes are provided. Install the upper 2 fasteners, hang the panel from them, then install the last 2 fasteners and tighten all.
   Refer to *Figure 2* for dimensions.
3. **Choose Conduit Entry Locations** – Choose desired location of main feed entry and branch circuit exit from the panel. Choose desired entry points for low voltage inputs and network wiring. See *Figure 3 for details.* Several 1/2" conduit knockouts are provided, punch additional as needed. DO NOT route conduit where "NO CONDUIT ENTRY" is shown.
4. **Remove Excess Contaminants** – Remove excess metal shavings and contaminants from the cabinet **PRIOR** to energizing power.

Main Feed or Feed Through and Load Wiring Installation

MAIN FEED (See Figure 4)

1. Connect a suitably sized main feed to the main lug, neutral bar and ground bar in the LMP panel. See *Figure 4* for details.
2. Connect load wiring to the LM modules and the neutral bar. See the appropriate LM module installation instructions for details.

FEED THROUGH (See Figure 5)

1. Line voltage loads in feed through applications are fed from circuit breakers in an external breaker panel.
   Connect each dimmer module's input hot terminal block to the appropriate external circuit breaker.
2. Connect the dimmer module's neutral terminal block to the appropriate external neutral connection.
   See the appropriate LM module installation instructions for details.
3. Connect the controller power hot and neutral terminal blocks to the appropriate external circuit breaker and neutral connection.
   See *Figure 5* for details.

Low Voltage Connections and Turn On

1. Connect any low voltage digital device(s) to the Fresco Network (FCN). See *Figures 6 & 7*, or the LMP controller installation instructions for details.
2. The LM4A and LM4D dimming module are supplied with a shorting jumper across all outputs to allow for temporary full intensity lighting (no dimming function) during installation or troubleshooting periods.
   TEST FOR SHORT CIRCUITS in load wiring BEFORE energizing main feed.
3. Apply power to main feed to allow for temporary lighting.
4. Remove shorting jumpers and program system for operation. **CAUTION! REMOVE THE JUMPERS ONLY WHILE POWER IS OFF!**

Main Feed Specifications:

3Phase, 4 Wire 120/208 - 125A Max
3Phase, 4 Wire 277/480 - 65A Max
2Phase, 3 Wire 120/240 - 87A Max

Each dimmer module is rated for 16.6A at 120VAC or 7.2A at 277VAC.
Max Ratings:

Large - 150A @ 120V, 65A @ 277V
Med - 100A @ 120V, 43A @ 277V
Small - 50A @ 120V, 21.6 @ 277V

Wire Bend Radius Dimensions

(AWG)	Minimum wire bending spacing requirement	Main distribution block		Neutral bar	Ground bar	Module terminal blocks	Branch circuit breakers
		Input	Output				
14 - 10	none		x	x	x	x	x
8 - 6	1.5"	x	x	x	x		
4	2"	x	x	x	x		
3	2"	x		x	x		
2	2.5"	x		x	x		
1	3"	x		x	x		
1/0	5"	x		x	x		
2/0	6"	x		x	x		

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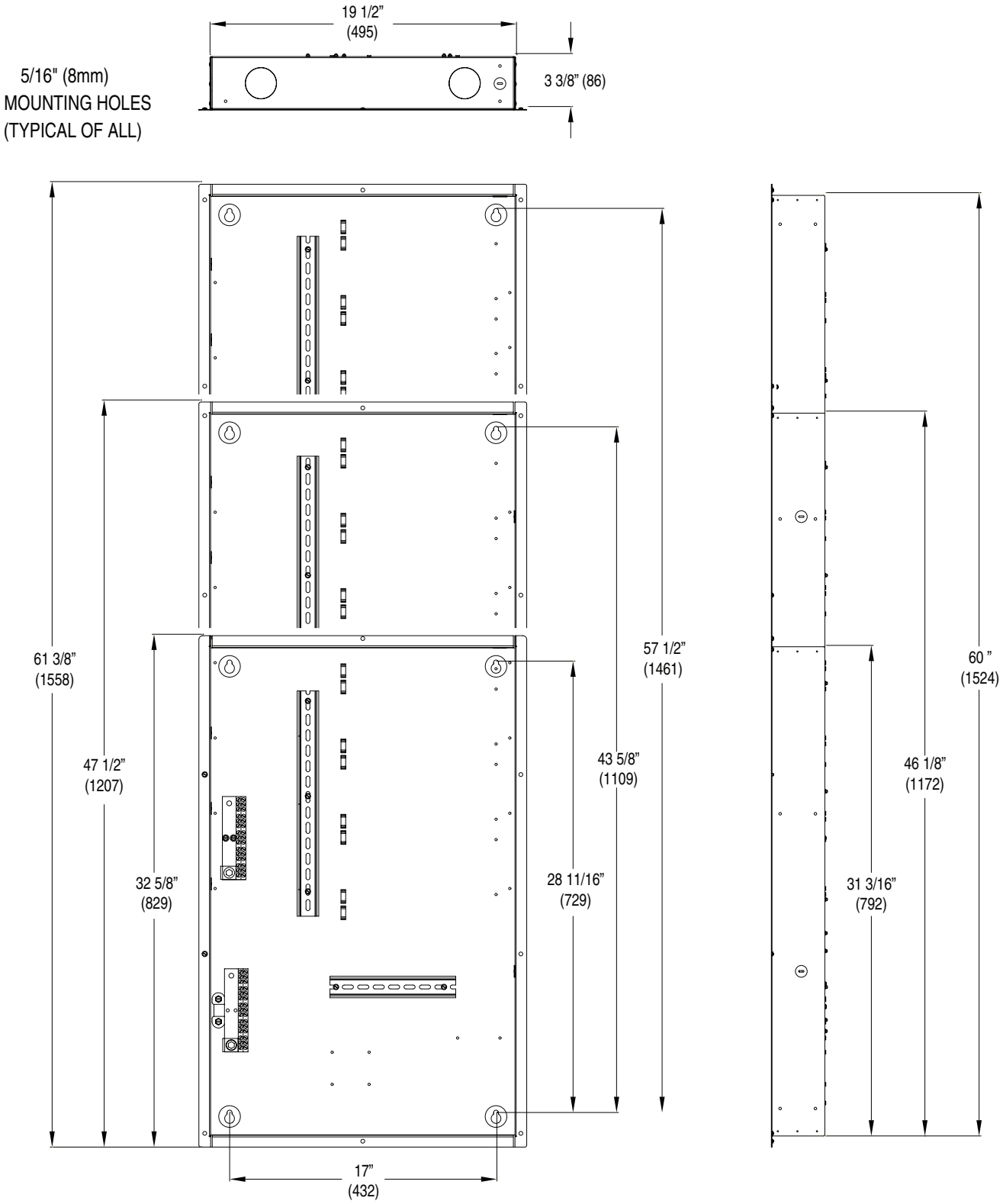

Figure 2 - Cabinet Dimensions (inches/mm)

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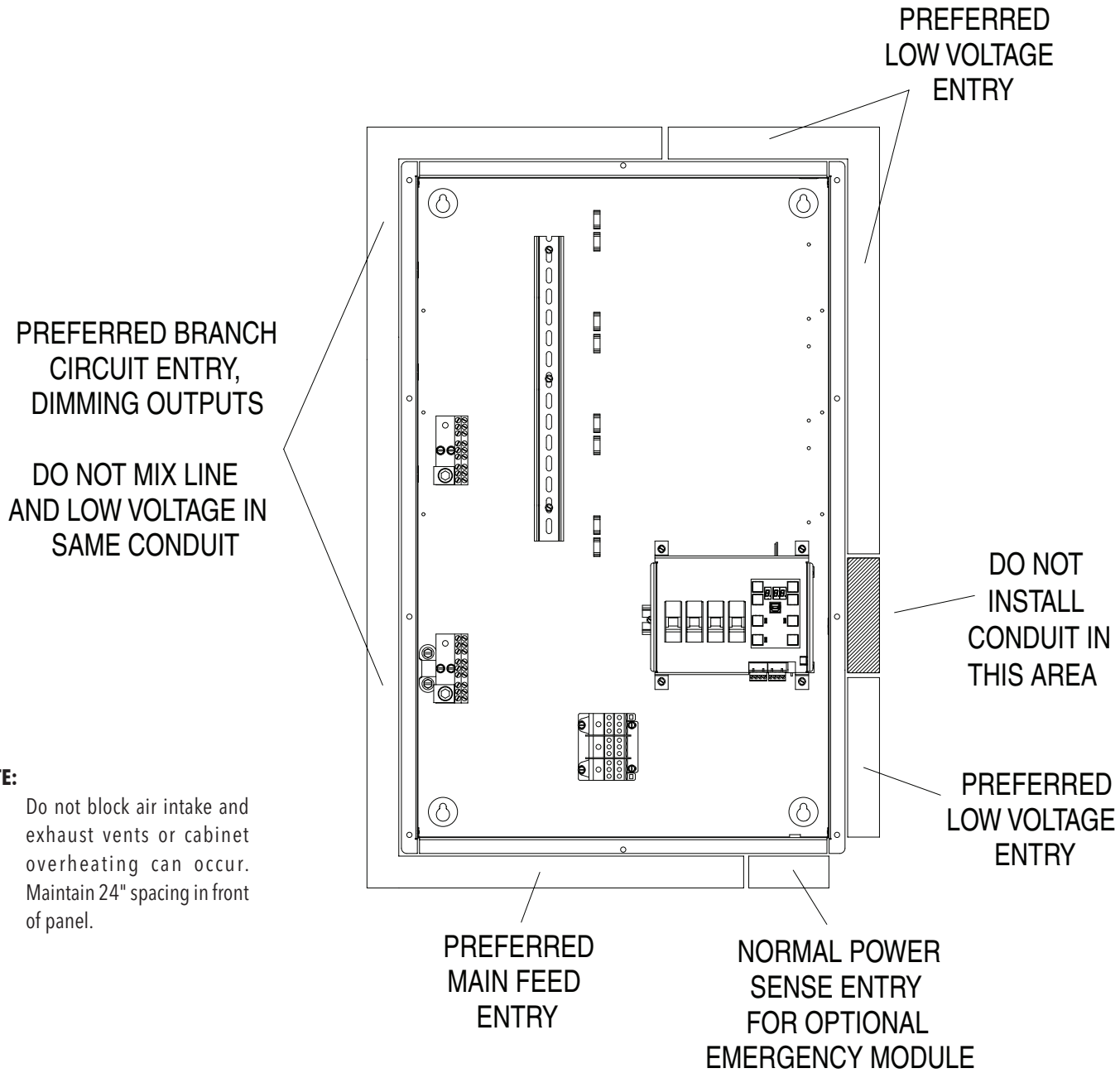

NOTE:

Do not block air intake and exhaust vents or cabinet overheating can occur. Maintain 24" spacing in front of panel.

Figure 3 - Recommended Conduit Entry Locations

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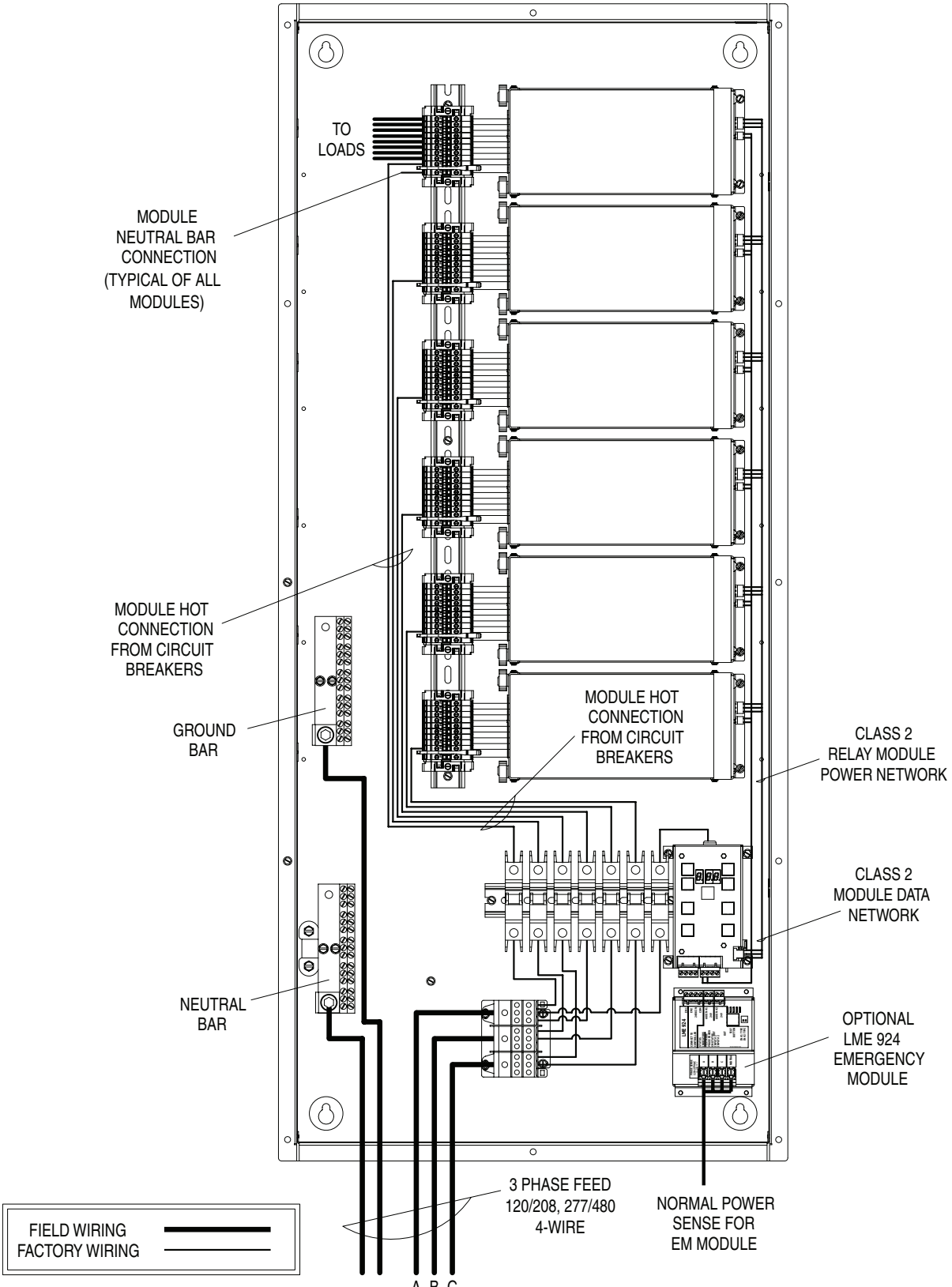
TO LOADS
MODULE NEUTRAL BAR CONNECTION (TYPICAL OF ALL MODULES)
MODULE HOT CONNECTION FROM CIRCUIT BREAKERS
GROUND BAR
MODULE HOT CONNECTION FROM CIRCUIT BREAKERS
CLASS 2 RELAY MODULE POWER NETWORK
CLASS 2 MODULE DATA NETWORK
NEUTRAL BAR
OPTIONAL LME 924 EMERGENCY MODULE
3 PHASE FEED 120/208, 277/480 4-WIRE
NORMAL POWER SENSE FOR EM MODULE
FIELD WIRING
FACTORY WIRING
A B C

Figure 4 - Main Lug Feed Details

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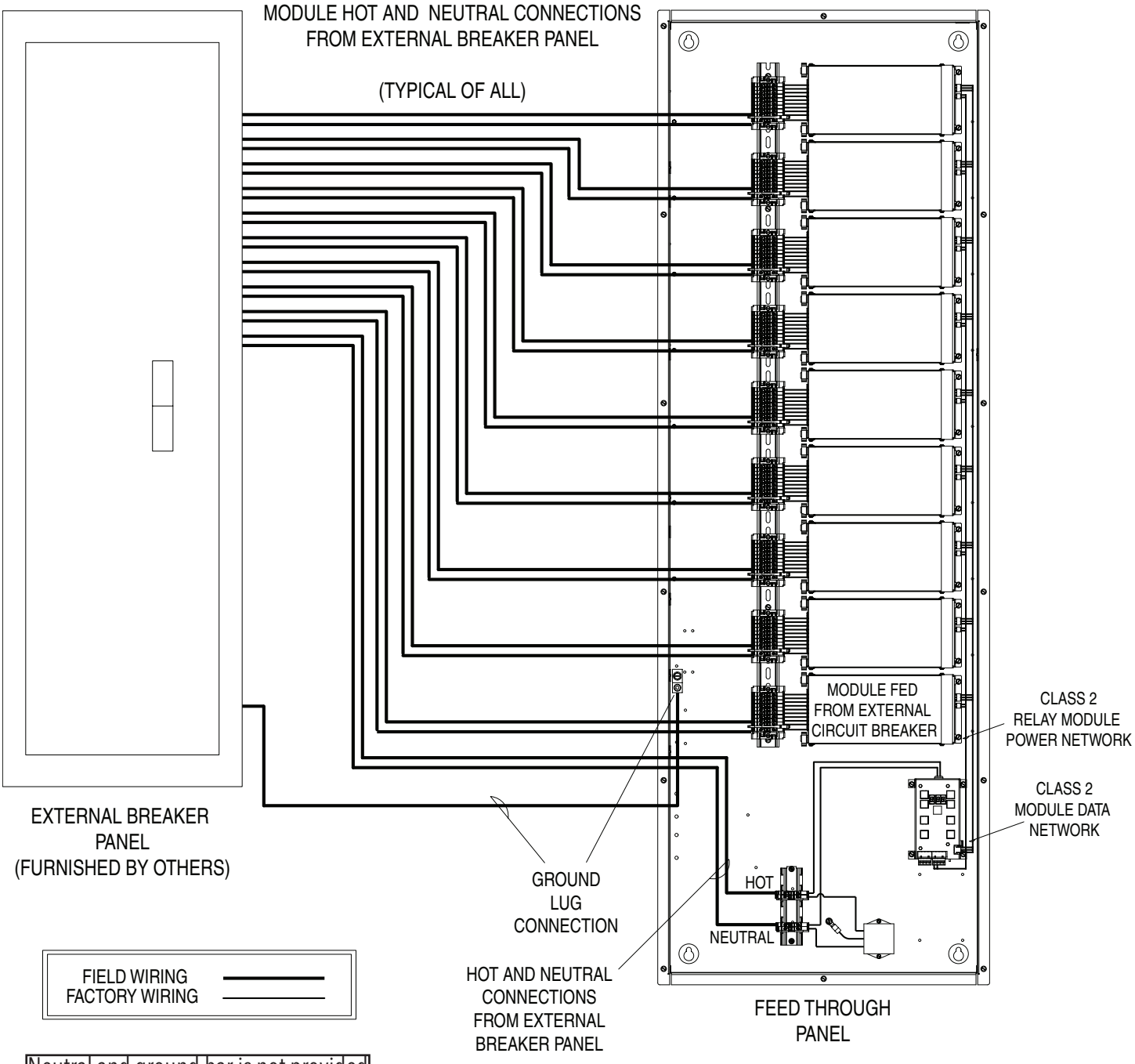
MODULE HOT AND NEUTRAL CONNECTIONS FROM EXTERNAL BREAKER PANEL
(TYPICAL OF ALL)
EXTERNAL BREAKER PANEL (FURNISHED BY OTHERS)
MODULE FED FROM EXTERNAL CIRCUIT BREAKER
CLASS 2 RELAY MODULE POWER NETWORK
CLASS 2 MODULE DATA NETWORK
GROUND LUG CONNECTION
HOT
NEUTRAL
HOT AND NEUTRAL CONNECTIONS FROM EXTERNAL BREAKER PANEL
FEED THROUGH PANEL
FIELD WIRING
FACTORY WIRING
Neutral and ground bar is not provided within Feed Through panel.

Figure 5 - Feed Through Feed Details

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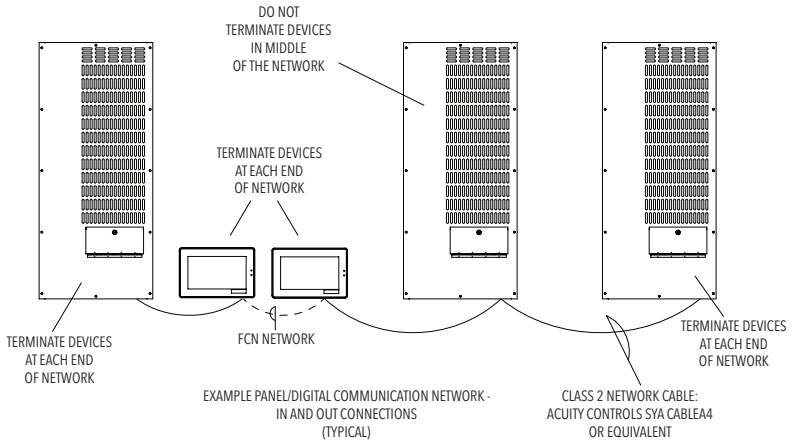

Figure 6 - LMP Panel Digital Device Network

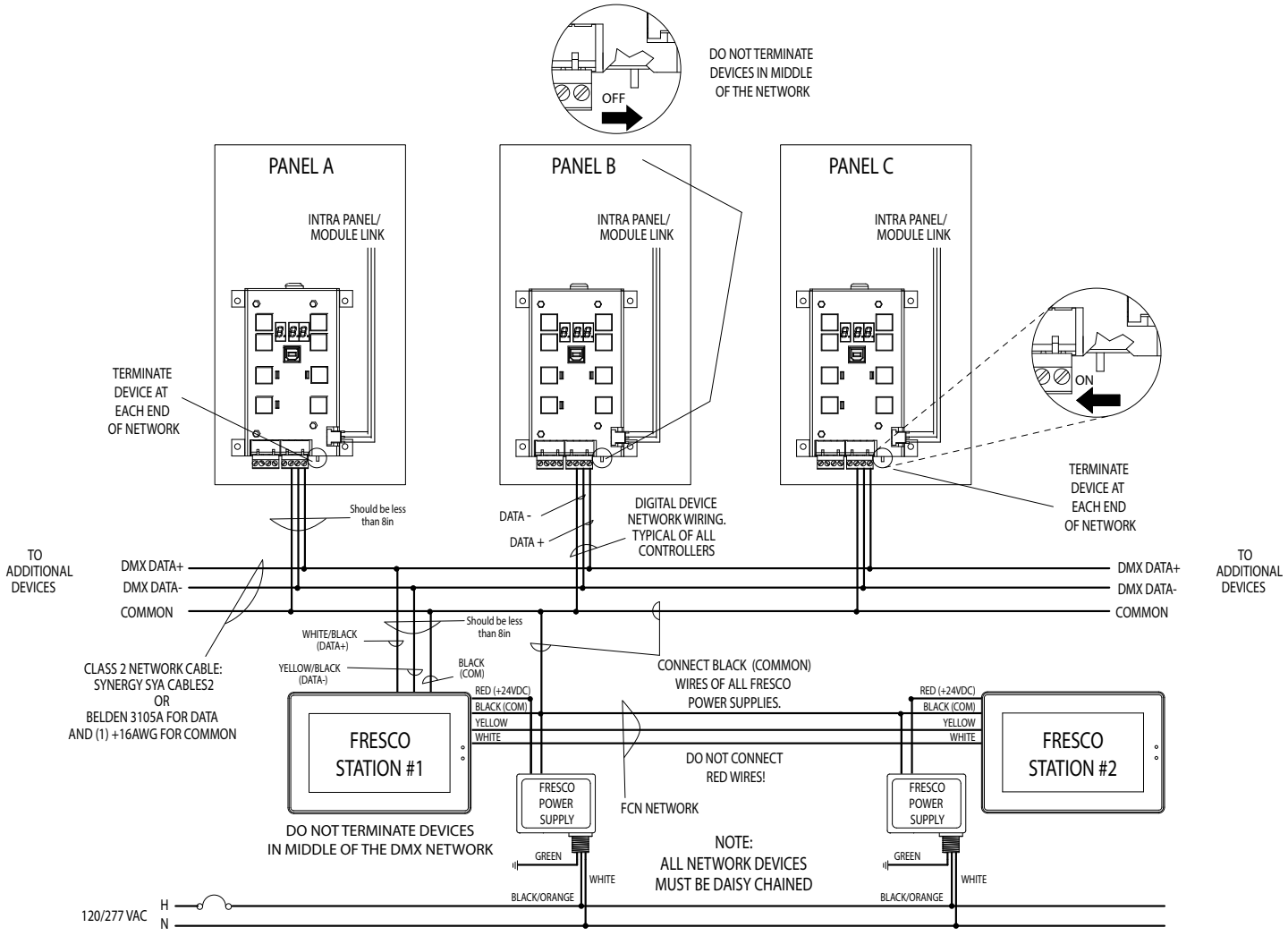

Figure 7 - LMP Panel Digital Device Connections

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AcuityControls Fresco

LMP PANEL
LOAD WIRING SCHEDULE

Cabinet ID: _____

Cabinet Location: _____

Module Number		Output Number	Description	Load (VA)	DMX Address
1	Module Type:	1			
		2			
	Feed Circuit:	3			
		4			
2	Module Type:	1			
		2			
	Feed Circuit:	3			
		4			
3	Module Type:	1			
		2			
	Feed Circuit:	3			
		4			
4	Module Type:	1			
		2			
	Feed Circuit:	3			
		4			

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Part No. 912-00001-001 Rev D

5	Module Type:	1			
		2			
	Feed Circuit:	3			
		4			
6	Module Type:	1			
		2			
	Feed Circuit:	3			
		4			
7	Module Type:	1			
		2			
	Feed Circuit:	3			
		4			
8	Module Type:	1			
		2			
	Feed Circuit:	3			
		4			
9	Module Type:	1			
		2			
	Feed Circuit:	3			
		4			

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